

# P1635

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**Submitter Email:** [clarkcentral@att.net](mailto:clarkcentral@att.net)

**Type of Project:** Revision to IEEE Standard 1635-2012

**PAR Request Date:** 16-Jan-2016

**PAR Approval Date:** 03-Mar-2016

**PAR Expiration Date:** 31-Dec-2020

**Status:** PAR for a Revision to an existing IEEE Standard

**Root Project:** 1635-2012

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**1.1 Project Number:** P1635

**1.2 Type of Document:** Guide

**1.3 Life Cycle:** Full Use

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**2.1 Title:** ASHRAE Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications

**Changes in title:** ~~IEEE~~/ASHRAE Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications

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**3.1 Working Group:** Ventilation Working Group (PE/SB/WG\_1635)

**Contact Information for Working Group Chair**

**Name:** Mark Clark

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**Contact Information for Working Group Vice-Chair**

None

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**3.2 Sponsoring Society and Committee:** IEEE Power and Energy Society/Stationary Batteries Committee (PE/SB)

**Contact Information for Sponsor Chair**

**Name:** Richard Tressler

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**Contact Information for Standards Representative**

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**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 10/2017

**4.3 Projected Completion Date for Submittal to RevCom:** 05/2018

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 40

**5.2 Scope:** This guide discusses the ventilation and thermal management of stationary battery systems as applied to the following:

- Vented (flooded) lead-acid (VLA)
- Valve-regulated lead-acid (VRLA)
- Nickel-cadmium (NiCd)

For each category, both the technology and the design of the battery are described in order to facilitate user understanding of the environmental issues associated with each type of technology.

The scope of this document includes only stationary batteries under conditions of expected use. Multiple operating modes are identified.

The ventilation practices described in this guide represent the "best practice" based on the information available at the time this document was developed. The user should evaluate these practices against their operating experience, operating conditions, number and size of battery systems, manufacturer's recommendations, resources, and needs in developing an environment that maximizes safety and is conducive to optimum operation of the equipment. These recommendations were developed without consideration of economics, availability of equipment and personnel, or relative importance of the application. Design of a ventilation system for a specific battery installation requires consideration of all issues, not just the technical issues considered in this document.

**5.3 Is the completion of this standard dependent upon the completion of another standard:** No

**5.4 Purpose:** The purpose of this document is to provide heating, ventilation, and air conditioning (HVAC) and battery system designers and users with information and recommendations concerning the ventilation and thermal management of stationary battery installations.

**5.5 Need for the Project:** Provide a bridge of understanding between the electrical and HVAC design engineers in designing a stationary battery installation.

Two new informative annexes will be added at the request of ASHRAE.

The document will be updated to reflect new manufacturer information on gassing of nickel-cadmium batteries.

Identified editorial corrections will be incorporated.

References will be added and updated.

Battery ratings section will be revised.

**5.6 Stakeholders for the Standard:** The American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE). All stationary battery installation design engineers.

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### Intellectual Property

**6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?:** No

**6.1.b. Is the Sponsor aware of possible registration activity related to this project?:** No

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**7.1 Are there other standards or projects with a similar scope?:** No

### 7.2 Joint Development

**Is it the intent to develop this document jointly with another organization?:** Yes

**Organization:** ASHRAE

**Technical Committee Name:** Battery Room Ventilation

**Technical Committee Number:** GPC 21-2012R

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### 8.1 Additional Explanatory Notes (Item Number and Explanation):